

Stephen M Bruemmer

List of Publications by Year in descending order

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papers

284
citations

1307594

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1474206

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10
all docs

10
docs citations

10
times ranked

348
citing authors

#	ARTICLE	IF	CITATIONS
1	Deciphering atomistic mechanisms of the gas-solid interfacial reaction during alloy oxidation. Science Advances, 2020, 6, eaay8491.	10.3	20
2	Temperature Dependence of Self-Diffusion in Cr ₂ O ₃ from First Principles. Journal of Physical Chemistry C, 2019, 123, 22139-22150.	3.1	12
3	Characterization of Stress Corrosion Cracking Initiation Precursors in Cold-Worked Alloy 690 Using Advanced High-Resolution Microscopy. Corrosion, 2019, 75, 727-736.	1.1	8
4	First-Principles Investigation of Native Interstitial Diffusion in Cr ₂ O ₃ . Journal of Physical Chemistry C, 2018, 122, 12984-12993.	3.1	19
5	Atomic origins of water-vapour-promoted alloy oxidation. Nature Materials, 2018, 17, 514-518.	27.5	106
6	In situ atomic scale visualization of surface kinetics driven dynamics of oxide growth on a Ni-Cr surface. Chemical Communications, 2016, 52, 3300-3303.	4.1	38
7	In-situ transmission electron microscopy study of surface oxidation for Ni-10Cr and Ni-20Cr alloys. Scripta Materialia, 2016, 114, 129-132.	5.2	43
8	Direct in Situ TEM Observation of Modification of Oxidation by the Injected Vacancies for Ni-4Al Alloy Using a Microfabricated Nanopost. ACS Applied Materials & Interfaces, 2015, 7, 17272-17277.	8.0	35
9	Electron Microscopy Analysis of Grain Boundary Corrosion in Ni-Cr Binary Alloys Exposed to High Temperature Hydrogenated Water. Microscopy and Microanalysis, 2015, 21, 1175-1176.	0.4	0
10	Modeling selective intergranular oxidation of binary alloys. Journal of Chemical Physics, 2015, 142, 014704.	3.0	3